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22-26 Aug. 2004 Page(s):711 - 715
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2. **Vision based topological Markov localization**
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Robotics and Automation, 2004. Proceedings. ICRA '04. 2004 IEEE Internatior
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3. **Object recognition from local scale-invariant features**
Lowe, D.G.;
Computer Vision, 1999. The Proceedings of the Seventh IEEE International Cc
Volume 2, 20-27 Sept. 1999 Page(s):1150 - 1157 vol.2
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Relevance scale

1 Ant colony optimization and swarm intelligence: Scale invariant pareto optimality: a meta--formalism for characterizing and modeling cooperativity in evolutionary systems

Mark Fleischer

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Publisher: ACM Press

Full text available: pdf(491.82 KB) Additional Information: full citation, abstract, references, index terms

This article describes a mathematical framework for characterizing cooperativity in complex systems subject to evolutionary pressures. This framework uses three foundational components that constitute a *meta-formalism* that can be utilized in a host of research and development settings to improve the management, control, and understanding of large numbers of interacting systems such as in communication, computer, and sensor networks. A new concept, *Scale Invariant Pareto Optimality*, ...

Keywords: complex systems, multi-objective optimization, pareto optima, self-organization, self-organized criticality, swarm intelligence

2 A theoretical analysis of feedback flow control

S. Shenker

August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols SIGCOMM '90**, Volume 20 Issue 4

Publisher: ACM Press

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, citings, index terms

Congestion is a longstanding problem in datagram networks. One congestion avoidance technique is feedback flow control, in which sources adjust their transmission rate in response to congestion signals sent (implicitly or explicitly) by network gateways. The goal is to design flow control algorithms which provide time-scale invariant, fair, stable, and robust performance. In this paper we introduce a simple model of feedback flow control, in which sources make synchronous rate adjus ...

3 Evolution strategies, evolutionary programming: papers: Reconsidering the progress rate theory for evolution strategies in finite dimensions

Anne Auger, Nikolaus Hansen
July 2006 **Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06**
Publisher: ACM Press
Full text available: pdf(625.43 KB) Additional Information: full citation, abstract, references, index terms

This paper investigates the limits of the predictions based on the classical progress rate theory for Evolution Strategies. We explain on the sphere function why positive progress rates give convergence in mean, negative progress rates divergence in mean and show that almost sure convergence can take place despite divergence in mean. Hence step-sizes associated to negative progress can actually lead to almost sure convergence. Based on these results we provide an alternative progress rate defini ...

Keywords: convergence rate, evolution strategy, progress rate, theory

4 Exploring architectural scalability

Gunnar Brataas, Peter Hughes
January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: pdf(528.21 KB) Additional Information: full citation, abstract, references, index terms

We describe a structured, hierarchic approach to exploring the scalability of IT systems architectures. An architecture is considered to be scalable over a particular set of requirements if the physical resource usage per unit of capacity remains roughly constant. For completeness, both requirements and capacity must be defined in the three dimensions of processing, storage and connectivity. Interactions between the three dimensions are considered, as are various forms of departure from non-unif ...

Keywords: J2EE, scalability, software architecture, software performance

5 Watermarking algorithms: Scale-invariant image watermarking via optimization algorithms for quantizing randomized statistics

Tie Liu, Ramarathnam Venkatesan, M. Kivanç Mihçak
September 2004 **Proceedings of the 2004 workshop on Multimedia and security MM&Sec '04**
Publisher: ACM Press
Full text available: pdf(283.59 KB) Additional Information: full citation, abstract, references, index terms

We introduce a novel approach for blind and semi-blind watermarking and apply it to images. We derive randomized robust semi-global features of images in a suitable transform domain (wavelets in case of images) and quantize them in order to embed the watermark. Quantization is carried out by embedding to the host a computed sequence via solving an optimization problem whose parameters are known to the information hider, but unknown to the attacker. The image features are rationa statistics of ps ...

Keywords: cryptanalysis, mark embedding, optimization, quantization, randomized statistics, security, verification, watermarking

6 Image retrieval by appearance

S. Ravela, R. Manmatha
July 1997 **ACM SIGIR Forum , Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval**

SIGIR '97, Volume 31 Issue SI
Publisher: ACM Press
Full text available: pdf(1.47 MB) Additional Information: full citation, references, citings, index terms

7 Salient geometric features for partial shape matching and similarity
Ran Gal, Daniel Cohen-Or
January 2006 **ACM Transactions on Graphics (TOG)**, Volume 25 Issue 1
Publisher: ACM Press
Full text available: pdf(761.63 KB) Additional Information: full citation, abstract, references, index terms

This article introduces a method for partial matching of surfaces represented by triangular meshes. Our method matches surface regions that are numerically and topologically dissimilar, but approximately similar regions. We introduce novel local surface descriptors which efficiently represent the geometry of local regions of the surface. The descriptors are defined independently of the underlying triangulation, and form a compatible representation that allows matching of surfaces with different ...

Keywords: Partial matching, geometric transformations, salient features, shape retrieval, similarity

8 Poster: Integrated Wavelet and Fourier-Mellin invariant feature in fingerprint verification system
T. B. J. Andrew, N. C. L. David
November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications**
Publisher: ACM Press
Full text available: pdf(320.02 KB) Additional Information: full citation, abstract, references, index terms

Today, minutiae-based and image-based are the two major approaches for the purpose of fingerprint authentication. Image based approach offers much higher computation efficiency with minimum pre-processing and proves also effective even when the image quality is too low to allow a reliable minutia extraction. However, this approach is vulnerable to shape distortions as well as variation in position, scale and orientation angle. In this paper, a novel method of image based fingerprint matching bas ...

Keywords: Fourier-Mellin Transform, Wavelet Transform, fingerprint verification, invariant features

9 A new lower bound technique and its application: tight lower bound for a polygon triangulation problem
Prakash Ramanan
March 1991 **Proceedings of the second annual ACM-SIAM symposium on Discrete algorithms**
Publisher: Society for Industrial and Applied Mathematics
Full text available: pdf(725.52 KB) Additional Information: full citation, references, index terms

10 From optimal limited to unlimited supply auctions
Jason D. Hartline, Robert McGrew
June 2005 **Proceedings of the 6th ACM conference on Electronic commerce**
Publisher: ACM Press

Full text available: pdf(150.33 KB) Additional Information: full citation, abstract, references, index terms

We investigate the class of single-round, sealed-bid auctions for a set of identical items to bidders who each desire one unit. We adopt the worst-case competitive framework defined by [9, 5] that compares the profit of an auction to that of an optimal single-price sale of least two items. In this paper, we first derive an optimal auction for three items, answering an open question from [8]. Second, we show that the form of this auction is independent of the competitive framework used. Third, we ...

Keywords: auctions, competitive analysis, mechanism design

11 Technical session 13: managing images: An efficient parts-based near-duplicate and sub-image retrieval system

Yan Ke, Rahul Sukthankar, Larry Huston

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(573.85 KB) Additional Information: full citation, abstract, references, index terms

We introduce a system for near-duplicate detection and sub-image retrieval. Such a system is useful for finding copyright violations and detecting forged images. We define near-duplicate as images altered with common transformations such as changing contrast, saturation, scaling, cropping, framing, etc. Our system builds a parts-based representation of images using distinctive local descriptors which give high quality matches even under severe transformations. To cope with the ...

Keywords: interest points, local image descriptors, locality-sensitive hashing (LSH), near-duplicate image detection, sub-image retrieval

12 Augmented reality and mobile systems I: Tracking with reference images: a real-time and markerless tracking solution for out-door augmented reality applications

Didier Stricker

November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**

Publisher: ACM Press

Full text available: pdf(7.12 MB) Additional Information: full citation, abstract, references, index terms

This paper presents the optical tracking solution developed in the ArcheoGuide project (The Augmented Reality based Cultural Heritage On-site GUIDE, IST-1999-11306). The system enables to recover precisely the user head position and orientation at predetermined viewing location without the support of markers.The tracking approach is novel and bases on the real-time registration of the live video-image with so called "reference images" of the site. Once the matching between a live- and a referenc ...

Keywords: cultural heritage, markerless optical tracking, mobile augmented reality

13 Feature-based similarity search in 3D object databases

Benjamin Bustos, Daniel A. Keim, Dietmar Saupe, Tobias Schreck, Dejan V. Vranić

December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4

Publisher: ACM Press

Full text available: pdf(5.29 MB) Additional Information: full citation, abstract, references, index terms

The development of effective content-based multimedia search systems is an important research issue due to the growing amount of digital audio-visual information. In the case

of images and video, the growth of digital data has been observed since the introduction of 2D capture devices. A similar development is expected for 3D data as acquisition and dissemination technology of 3D models is constantly improving. 3D objects are becoming an important type of multimedia data with many promising appl ...

Keywords: 3D model retrieval, content-based similarity search

14 Similarity Measures: Relevance score normalization for metasearch

Mark Montague, Javed A. Aslam
October 2001 **Proceedings of the tenth international conference on Information and knowledge management**
Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terms

Given the ranked lists of documents returned by multiple search engines in response to a given query, the problem of *metasearch* is to combine these lists in a way which optimizes the performance of the combination. This problem can be naturally decomposed into three subproblems: (1) *normalizing* the relevance scores given by the input systems, (2) *estimating* relevance scores for unretrieved documents, and (3) *combining* the newly-acquired scores for each document into ...

15 Superconcurrent simulation of polymer chains on heterogeneous networks

H. Nakanishi, V. Rego, V. Sunderam
December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society Press
Full text available: pdf(792.54 KB) Additional Information: full citation, references, citings, index terms

16 Joint Classification and Pairing of Human Chromosomes

Pravesh Biyani, Xiaolin Wu, Abhijit Sinha
April 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 2 Issue 2
Publisher: IEEE Computer Society Press
Full text available: pdf(404.27 KB) Additional Information: full citation, abstract, references, index terms

We reexamine the problems of computer-aided classification and pairing of human chromosomes, and propose to jointly optimize the solutions of these two related problems. The combined problem is formulated into one of optimal three-dimensional assignment with an objective function of maximum likelihood. This formulation poses two technical challenges: 1) estimation of the posterior probability that two chromosomes form a pair and the pair belongs to a class and 2) good heuristic algorithms to sol ...

Keywords: Chromosome classification, homologue pairing, maximum likelihood estimation, three-dimensional assignment, optimization.

17 Content 6: multimodal processing: Multimodal metadata fusion using causal strength

Yi Wu, Edward Y. Chang, Belle L. Tseng
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(541.39 KB) Additional Information: full citation, abstract, references, index terms

We propose a probabilistic framework that uses influence diagrams to fuse metadata of

multiple modalities for photo annotation. We fuse contextual information (location, time, and camera parameters), visual content (holistic and local perceptual features), and semantic ontology in a synergistic way. We use causal strengths to encode causalities between variables, and between variables and semantic labels. Through analytical and empirical studies, we demonstrate that our fusion approach can achie ...

Keywords: causal strength, influence diagram, multimodal fusion, photo annotation

18 Graphical search and replace

David Kurlander, Eric A. Bier
June 1988 **ACM SIGGRAPH Computer Graphics , Proceedings of the 15th annual conference on Computer graphics and interactive techniques SIGGRAPH '88**, Volume 22 Issue 4
Publisher: ACM Press

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, citings, index terms

Graphical search is a technique for finding all instances of a graphical pattern in a synthetic picture in which objects are regions bounded by lines and curves. The pattern may descirbe shape, color and other properties. Matched objects may be allowed to differ from the pattern in rotation and scale or may differ in shape by a specified tolerance. *Graphical replace* is a technique for replacing the shape, color, or other properties of matched objects with new properties described i ...

Keywords: curve matching, graphical editing, graphical grammars, graphical macros, search and replace

19 Improving visualization: View size and pointing difficulty in multi-scale navigation

Yves Guiard, Michel Beaudouin-Lafon, Julien Bastin, Dennis Pasveer, Shumin Zhai
May 2004 **Proceedings of the working conference on Advanced visual interfaces**
Publisher: ACM Press

Full text available: pdf(155.06 KB) Additional Information: full citation, abstract, references, citings, index terms

Using a new taxonomy of pointing tasks which includes view pointing beside traditional cursor pointing, we introduce the concept of multi-scale pointing. Analyzing the impact of view size, we demonstrate theoretically and experimentally that (1) the time needed to reach a remotely located target in a multi-scale interface still obeys Fitts' law and (2) the bandwidth of the interaction (i.e., the inverse of Fitts' law slope) is proportional to view size, a relationship bounded by an early ceiling ...

Keywords: Fitts' law, analysis methods, empirical methods, input and interaction technologies, quantitative

20 Posters: Query definition using interactive saliency

Giang P. Nguyen, Marcel Worring
November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**
Publisher: ACM Press

Full text available: pdf(957.48 KB) Additional Information: full citation, abstract, references, index terms

Content-based image retrieval (CBIR) has been under investigation for a long time with many systems built to meet different application demands. However, in all systems, there is still a big gap between the user's expectation and the system's retrieval capabilities.

Therefore, user interaction is an essential component of any CBIR system. Interaction up to now has mostly focused on global image features or similarities. We consider the interaction with salient details in the image i.e. points, l ...

Keywords: image retrieval, image segmentation, salient details

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1 Motion capture: Cloth motion capture
David Pritchard, Wolfgang Heidrich
July 2003 **ACM SIGGRAPH 2003 Sketches & Applications SIGGRAPH '03**
Publisher: ACM Press
Full text available: pdf(667.45 KB) Additional Information: full citation, references, citings

2 Applications and user studies: PhoneGuide: museum guidance supported by on-device object recognition on mobile phones
Paul Föckler, Thomas Zeidler, Benjamin Brombach, Erich Bruns, Oliver Bimber
December 2005 **Proceedings of the 4th international conference on Mobile and ubiquitous multimedia MUM '05**
Publisher: ACM Press
Full text available: pdf(168.93 KB) Additional Information: full citation, abstract, references, index terms

We present *PhoneGuide* -- an enhanced museum guidance system that uses camera-equipped mobile phones and on-device object recognition.Our main technical achievement is a simple and light-weight object recognition approach that is realized with single-layer perceptron neuronal networks. In contrast to related systems which perform computationally intensive image processing tasks on remote servers, our intention is to carry out all computations directly on the phone. This ensures little or e ...

Keywords: mobile phones, museum guidance, neural networks, object recognition

3 Content 6: multimodal processing: Multimodal metadata fusion using causal strength
Yi Wu, Edward Y. Chang, Belle L. Tseng
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(541.39 KB) Additional Information: full citation, abstract, references, index terms

We propose a probabilistic framework that uses influence diagrams to fuse metadata of multiple modalities for photo annotation. We fuse contextual information (location, time, and camera parameters), visual content (holistic and local perceptual features), and semantic ontology in a synergistic way. We use causal strengths to encode causalities between variables, and between variables and semantic labels. Through analytical and

empirical studies, we demonstrate that our fusion approach can achie ...

Keywords: causal strength, influence diagram, multimodal fusion, photo annotation

4 Poster: Integrated Wavelet and Fourier-Mellin invariant feature in fingerprint verification system

T. B. J. Andrew, N. C. L. David

November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications**

Publisher: ACM Press

Full text available: pdf(320.02 KB) Additional Information: full citation, abstract, references, index terms

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Keywords: Fourier-Mellin Transform, Wavelet Transform, fingerprint verification, invariant features

5 Learning to track 3D human motion from silhouettes

Ankur Agarwal, Bill Triggs

July 2004 **Proceedings of the twenty-first international conference on Machine learning ICML '04**

Publisher: ACM Press

Full text available: pdf(285.54 KB) Additional Information: full citation, abstract, references

We describe a sparse Bayesian regression method for recovering 3D human body motion directly from silhouettes extracted from monocular video sequences. No detailed body shape model is needed, and realism is ensured by training on real human motion capture data. The tracker estimates 3D body pose by using Relevance Vector Machine regression to combine a learned autoregressive dynamical model with robust shape descriptors extracted automatically from image silhouettes. We studied several different ...

6 Multimedia and visualization (MV): Contour-based partial object recognition using symmetry in image databases

June-Suh Cho, Joonsoo Choi

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

Publisher: ACM Press

Full text available: pdf(210.97 KB) Additional Information: full citation, abstract, references

This paper discusses the problem of partial object recognition in image databases. We propose the method to reconstruct and estimate partially occluded shapes and regions of objects in images from overlapping and cutting. We present the robust method for recognizing partially occluded objects based on symmetry properties, which is based on the contours of objects. Our method provides simple techniques to reconstruct occluded regions via a region copy using the symmetry axis within an object. Bas ...

Keywords: contour, image, object, recognition, symmetry

7 Special session 1: machine learning for visual information retrieval: Discriminant local

features selection using efficient density estimation in a large database
Alexis Joly, Olivier Buisson
November 2005 **Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval MIR '05**
Publisher: ACM Press
Full text available: pdf(576.96 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a density-based method to select discriminant local features in images or videos. We first introduce a new fast density estimation technique using a simple grid index structure and specific queries based on the energy of the gaussian function. This method enables the nonparametric density estimation of target features with very large sets of source features. We then apply it to the selection of discriminant local features: the principle is to keep only the features havi ...

8 Poster 2: applications track: IMAGINATION: a robust image-based CAPTCHA generation system
Ritendra Datta, Jia Li, James Z. Wang
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(308.63 KB) Additional Information: full citation, abstract, references, index terms

We propose IMAGINATION (IMAge Generation for INternet AuthenticaTION), a system for the generation of attack-resistant, user-friendly, image-based CAPTCHAs. In our system, we produce controlled distortions on randomly chosen images and present them to the user for annotation from a given list of words. The distortions are performed in a way that satisfies the incongruous requirements of low perceptual degradation and high resistance to attack by content-based image retrieval systems. Word choice ...

Keywords: CAPTCHA, automated turing test, image retrieval

9 Best student papers: Semantic manifold learning for image retrieval
Yen-Yu Lin, Tyng-Luh Liu, Hwann-Tzong Chen
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(2.12 MB) Additional Information: full citation, abstract, references, index terms

Learning the user's semantics for CBIR involves two different sources of information: the similarity relations entailed by the content-based features, and the relevance relations specified in the feedback. Given that, we propose an *augmented relation embedding* (ARE) to map the image space into a *semantic manifold* that faithfully grasps the user's preferences. Besides ARE, we also look into the issues of selecting a good feature set for improving the retrieval performance. With thes ...

Keywords: dimensionality reduction, feature selection, image retrieval, manifold learning, relevance feedback

10 Brave new topics 1: multimedia challenges for planetary scale applications: IrisNet: an internet-scale architecture for multimedia sensors
Jason Campbell, Phillip B. Gibbons, Suman Nath, Padmanabhan Pillai, Srinivasan Seshan, Rahul Sukthankar
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, index terms

Most current sensor network research explores the use of extremely simple sensors on small devices called motes and focuses on over-coming the resource constraints of these devices. In contrast, our research explores the challenges of multimedia sensors and is motivated by the fact that multimedia devices, such as cameras, are rapidly becoming inexpensive, yet their use in a sensor network presents a number of unique challenges. For example, the data rates involved with multimedia sensors are or ...

Keywords: multimedia sensors, sensor networks, wide-area sensing infrastructure

11 Interactive surfaces: Video-based document tracking: unifying your physical and electronic desktops

Jiwon Kim, Steven M. Seitz, Maneesh Agrawala

October 2004 **Proceedings of the 17th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: pdf(7.33 MB) Additional Information: full citation, abstract, references, index terms

This paper presents an approach for tracking paper documents on the desk over time and automatically linking them to the corresponding electronic documents using an overhead video camera. We demonstrate our system in the context of two scenarios, paper tracking and photo sorting. In the paper tracking scenario, the system tracks changes in the stacks of printed documents and books on the desk and builds a complete representation of the spatial structure of the de ...

Keywords: document recognition, intelligent office, interactive desktop, video analysis

12 Architecture: Multimodal interaction in an augmented reality scenario

Gunther Heidemann, Ingo Bax, Holger Bekel

October 2004 **Proceedings of the 6th international conference on Multimodal interfaces**

Publisher: ACM Press

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, index terms

We describe an augmented reality system designed for online acquisition of visual knowledge and retrieval of memorized objects. The system relies on a head mounted camera and display, which allow the user to view the environment together with overlaid augmentations by the system. In this setup, communication by hand gestures and speech is mandatory as common input devices like mouse and keyboard are not available. Using gesture and speech, basically three types of tasks must be handled: (i) C ...

Keywords: augmented reality, human-machine-interaction, image retrieval, interfaces, memory, mobile systems, object recognition

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